



SEQUENCE LISTING

<110> SPENCER, MICHAEL
MUMM, RITA
GWYN, J. JEFFERSON
MCELROY, DAVID
STEPHENS, MICHAEL A.

<120> METHOD FOR PLANT BREEDING

<130> DEKM:157USC1

<140> 09/698,789

<141> 2000-10-27

<150> 08/927,368

<151> 1997-09-11

<150> 08/899,247

<151> 1997-07-23

<160> 5

<170> PatentIn Ver. 2.1

<210> 1

<211> 21

<212> DNA

<213> Zea mays

<400> 1

acgtacgacg accacaggat g

21

<210> 2

<211> 21

<212> DNA

<213> Zea mays

<400> 2

gcaagaccgg caacaggatt c

21

<210> 3

<211> 19

<212> DNA

<213> Zea mays

<400> 3

tttggctctt ggggatgtg

19

<210> 4

<211> 20

<212> DNA

<213> Zea mays

<400> 4
ttacgctagt ctcggtccat

20

<210> 5
<211> 570
<212> PRT
<213> Zea mays

<400> 5
Met Ala Ser Ile Ser Ser Ser Val Ala Thr Val Ser Arg Thr Ala Pro
1 5 10 15
Ala Gln Ala Asn Met Val Ala Pro Phe Thr Gly Leu Lys Ser Asn Ala
20 25 30
Ala Phe Pro Thr Thr Lys Lys Ala Asn Asp Phe Ser Thr Leu Pro Ser
35 40 45
Asn Gly Gly Gly Arg Val Gln Cys Met Gln Val Trp Pro Ala Tyr Gly
50 55 60
Asn Lys Lys Phe Glu Thr Leu Ser Tyr Leu Pro Pro Leu Ser Met Ala
65 70 75 80
Pro Thr Val Met Met Ala Ser Ser Ala Thr Ala Val Ala Pro Phe Gln
85 90 95
Gly Leu Lys Ser Thr Ala Ser Leu Pro Val Ala Arg Arg Ser Ser Arg
100 105 110
Ser Leu Gly Asn Val Ser Asn Gly Gly Arg Ile Arg Cys Met Ala Gly
115 120 125
Ala Glu Glu Ile Val Leu Gln Pro Ile Lys Glu Ile Ser Gly Thr Val
130 135 140
Lys Leu Pro Gly Ser Lys Ser Leu Ser Asn Arg Ile Leu Leu Ile Ala
145 150 155 160
Ala Leu Ser Glu Gly Thr Thr Val Val Asp Asn Leu Leu Asn Ser Glu
165 170 175
Asp Val His Tyr Met Leu Gly Ala Leu Arg Thr Leu Gly Leu Ser Val
180 185 190
Glu Ala Asp Lys Ala Ala Lys Arg Ala Val Val Val Gly Cys Gly Gly
195 200 205
Lys Phe Pro Val Glu Asp Ala Lys Glu Glu Val Gln Leu Phe Leu Gly
210 215 220
Asn Ala Gly Ile Ala Met Arg Ser Leu Thr Ala Ala Val Thr Ala Ala
225 230 235 240
Gly Gly Asn Ala Thr Tyr Val Leu Asp Gly Val Pro Arg Met Arg Glu
245 250 255

Arg	Pro	Ile	Gly	Asp	Leu	Val	Val	Gly	Leu	Lys	Gln	Leu	Gly	Ala	Asp		
			260					265					270				
Val	Asp	Cys	Phe	Leu	Gly	Thr	Asp	Cys	Pro	Pro	Val	Arg	Val	Asn	Gly		
		275					280					285					
Ile	Gly	Gly	Leu	Pro	Gly	Gly	Lys	Val	Lys	Leu	Ser	Gly	Ser	Ile	Ser		
	290					295					300						
Ser	Gln	Tyr	Leu	Ser	Ala	Leu	Leu	Met	Ala	Ala	Pro	Leu	Ala	Leu	Gly		
305					310					315					320		
Asp	Val	Glu	Ile	Glu	Ile	Ile	Asp	Lys	Leu	Ile	Ser	Ile	Pro	Tyr	Val		
			325						330					335			
Glu	Met	Thr	Leu	Arg	Leu	Met	Glu	Arg	Phe	Gly	Val	Lys	Ala	Glu	His		
			340					345					350				
Ser	Asp	Ser	Trp	Asp	Arg	Phe	Tyr	Ile	Lys	Gly	Gly	Gln	Lys	Tyr	Lys		
		355					360					365					
Ser	Pro	Lys	Asn	Ala	Tyr	Val	Glu	Gly	Asp	Ala	Ser	Ser	Ala	Ser	Tyr		
	370					375					380						
Phe	Leu	Ala	Gly	Ala	Ala	Ile	Thr	Gly	Gly	Thr	Val	Thr	Val	Glu	Gly		
385					390					395					400		
Cys	Gly	Thr	Thr	Ser	Leu	Gln	Gly	Asp	Val	Lys	Phe	Ala	Glu	Val	Leu		
				405					410					415			
Glu	Met	Met	Gly	Ala	Lys	Val	Thr	Trp	Thr	Glu	Thr	Ser	Val	Thr	Val		
			420					425					430				
Thr	Gly	Pro	Pro	Arg	Glu	Pro	Phe	Gly	Arg	Lys	His	Leu	Lys	Ala	Ile		
		435					440					445					
Asp	Val	Asn	Met	Asn	Lys	Met	Pro	Asp	Val	Ala	Met	Thr	Leu	Ala	Val		
	450					455					460						
Val	Ala	Leu	Phe	Ala	Asp	Gly	Pro	Thr	Ala	Ile	Arg	Asp	Val	Ala	Ser		
465					470					475					480		
Trp	Arg	Val	Lys	Glu	Thr	Glu	Arg	Met	Val	Ala	Ile	Arg	Thr	Glu	Leu		
			485						490					495			
Thr	Lys	Leu	Gly	Ala	Ser	Val	Glu	Glu	Gly	Pro	Asp	Tyr	Cys	Ile	Ile		
		500						505					510				
Thr	Pro	Pro	Glu	Lys	Leu	Asn	Val	Thr	Ala	Ile	Asp	Thr	Tyr	Asp	Asp		
		515					520					525					
His	Arg	Met	Ala	Met	Ala	Phe	Ser	Leu	Ala	Ala	Cys	Ala	Glu	Val	Pro		
	530					535					540						
Val	Thr	Ile	Arg	Asp	Pro	Gly	Cys	Thr	Arg	Lys	Thr	Phe	Pro	Asp	Tyr		
545					550					555					560		

Phe Asp Val Leu Ser Thr Phe Val Lys Asn
565 570